

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P459807

Luminaire Tested: **GWC-SA2A-AMB-U-SL4**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2A-AMB-U-SL4
Description: GALLEON WALL LUMINAIRE
(2) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2149 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 41.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

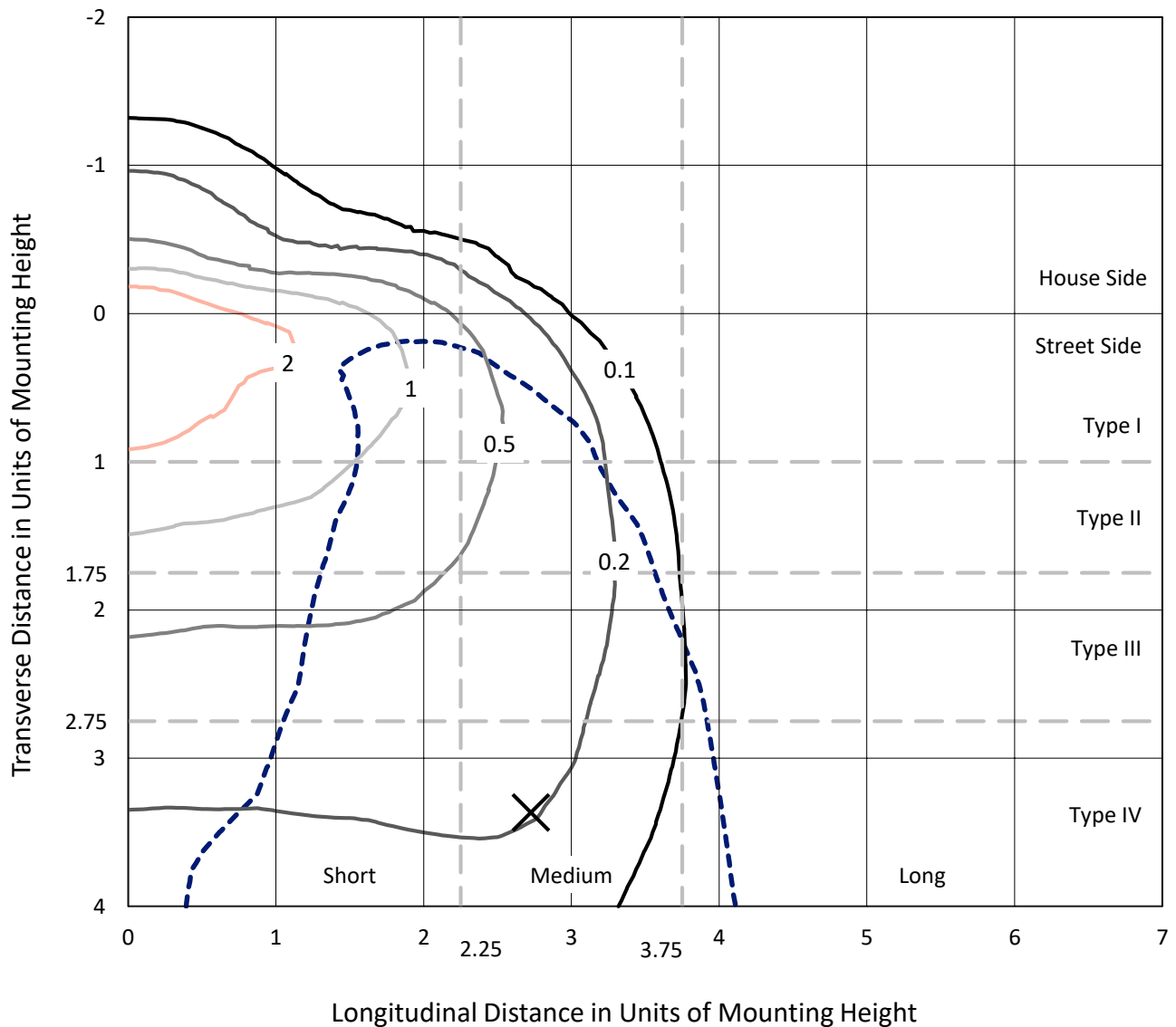


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

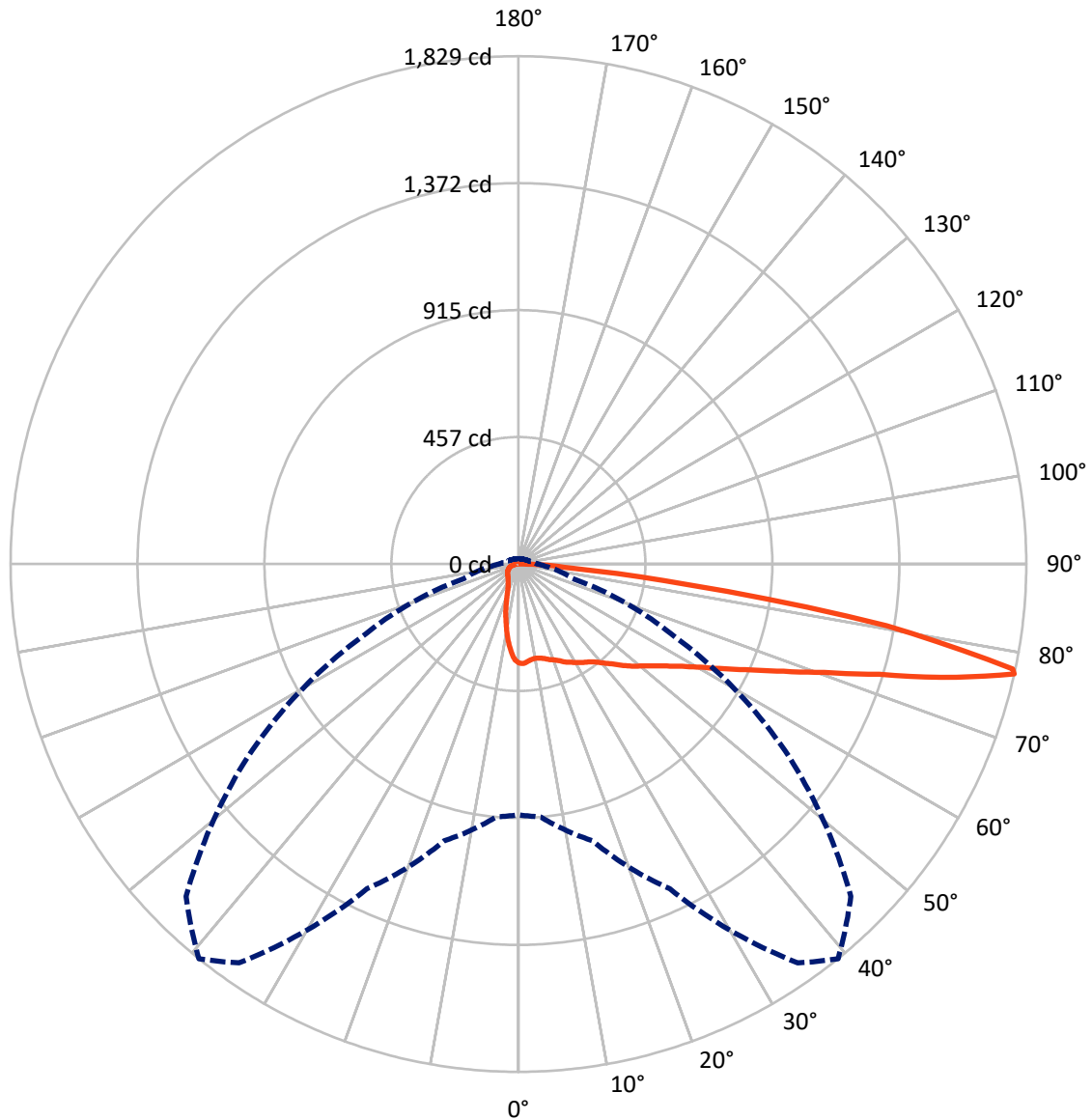


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 77-Deg Vertical



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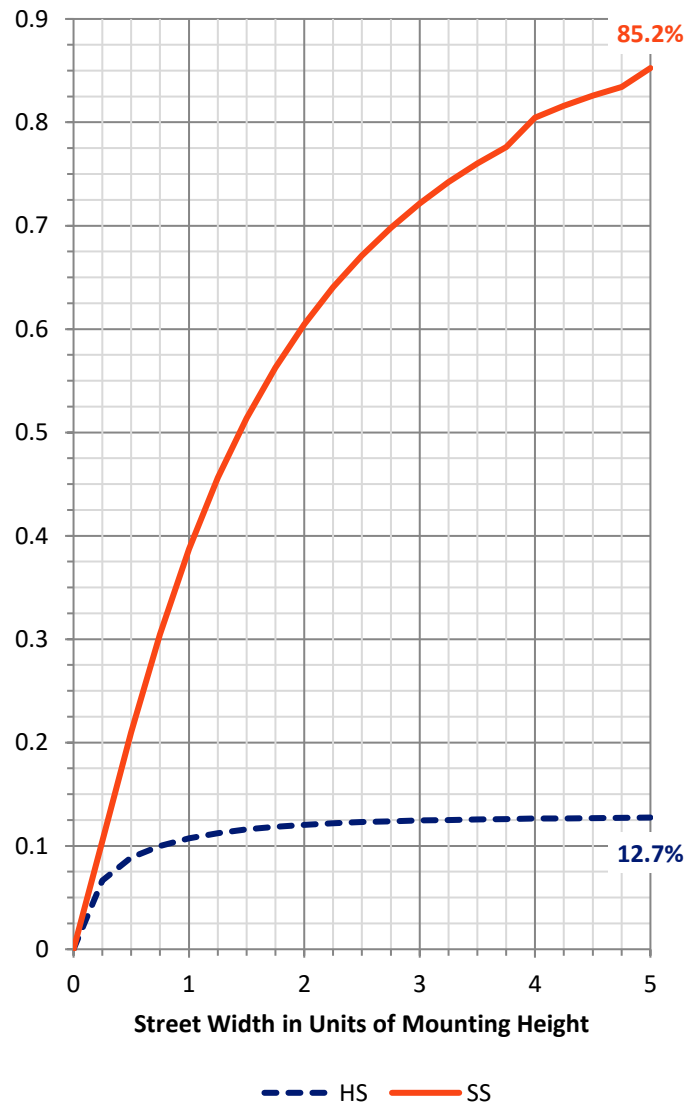
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	277.3	0.0	277.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	1871.7	0.0	1871.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	2149.0	0.0	2149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	1.5
10°-20°	78.3	3.6
20°-30°	119.6	5.6
30°-40°	172.0	8.0
40°-50°	249.7	11.6
50°-60°	358.3	16.7
60°-70°	493.6	23.0
70°-80°	532.5	24.8
80°-90°	113.9	5.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2149.0	100.0
0°-180°	2149.0	100.0

Coefficient of Utilization



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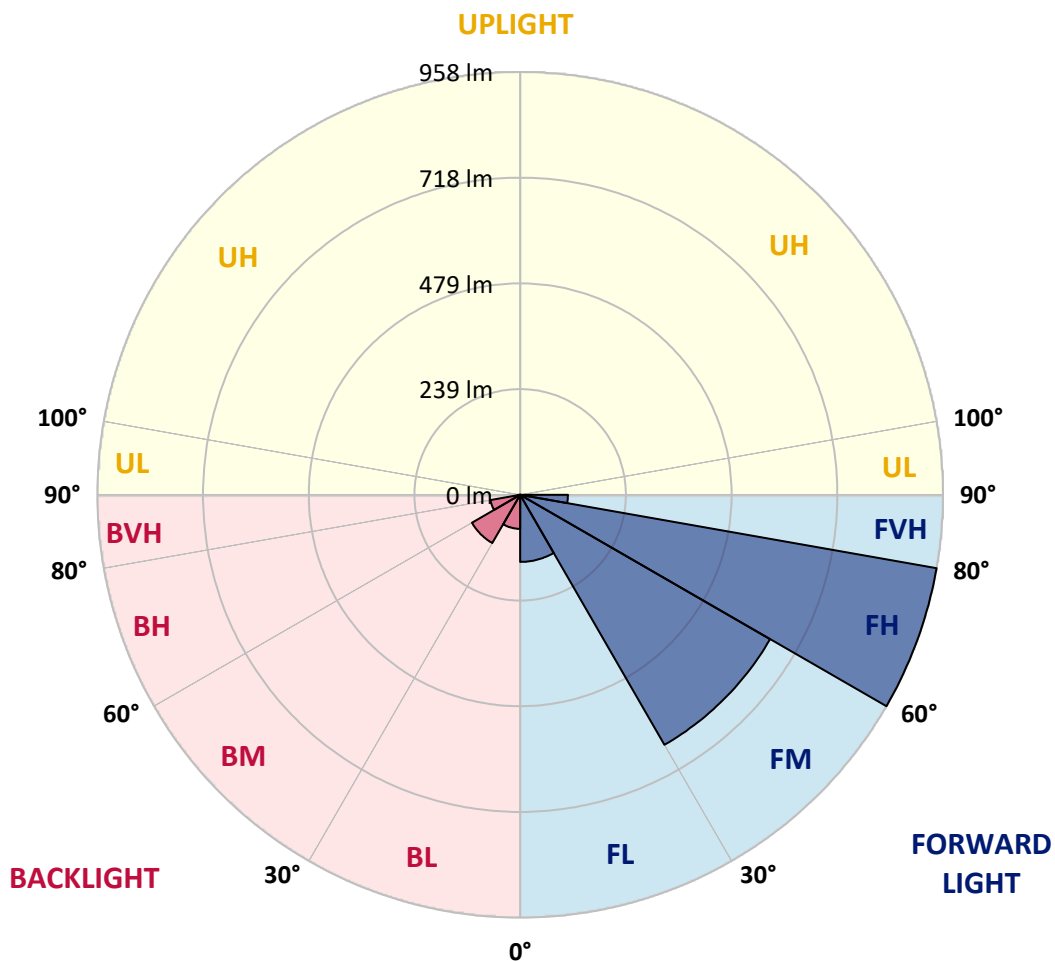
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	152.0	7.1			
FM	(30°-60°)	653.8	30.4			
FH	(60°-80°)	957.8	44.6			G1/1800
FVH	(80°-90°)	108.2	5.0			G2/225
BL	(0°-30°)	77.0	3.6	B0/110		
BM	(30°-60°)	126.2	5.9	B0/220		
BH	(60°-80°)	68.3	3.2	B0/110		G0/110
BVH	(80°-90°)	5.7	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	357.1	357.1	357.1	357.1	357.1	357.1	357.1	357.1	357.1	357.1	357.1
2.5°	361.0	358.1	358.1	361.0	359.0	359.0	357.1	359.0	357.1	355.2	357.1
5°	356.1	354.2	353.3	356.1	354.2	352.3	354.2	353.3	352.3	348.4	348.4
7.5°	347.5	345.5	345.5	348.4	349.4	346.5	347.5	348.4	345.5	341.7	342.6
10°	339.7	338.8	340.7	344.6	346.5	344.6	346.5	345.5	341.7	337.8	336.8
12.5°	334.0	333.0	335.9	343.6	347.5	347.5	348.4	345.5	342.6	337.8	334.0
15°	330.1	330.1	335.9	345.5	351.3	353.3	354.2	352.3	345.5	338.8	334.0
17.5°	332.0	331.1	338.8	350.4	357.1	361.9	361.9	359.0	350.4	341.7	335.9
20°	336.8	334.9	344.6	359.0	367.7	368.7	370.6	364.8	356.1	346.5	339.7
22.5°	338.8	343.6	354.2	370.6	375.5	378.3	378.3	372.6	360.0	353.3	345.5
25°	354.2	355.2	367.7	382.2	387.0	390.9	389.0	376.4	365.8	361.9	355.2
27.5°	370.6	371.6	384.1	394.8	397.7	400.5	401.5	384.1	373.5	372.6	363.9
30°	385.1	389.0	401.5	409.2	409.2	412.1	411.2	395.7	384.1	386.1	377.4
32.5°	410.2	409.2	421.8	422.7	417.9	422.7	422.7	405.4	397.7	406.3	392.8
35°	431.4	435.3	441.1	436.3	429.5	433.4	435.3	418.9	415.0	432.4	417.9
37.5°	460.4	457.5	460.4	451.7	442.0	446.9	451.7	437.2	439.2	464.2	445.9
40°	482.6	477.8	479.7	468.1	458.5	468.1	472.9	459.4	468.1	508.6	486.4
42.5°	500.9	497.1	493.2	486.4	478.7	491.3	499.0	488.4	506.7	557.9	536.6
45°	513.5	510.6	504.8	503.8	504.8	520.2	529.9	521.2	546.3	619.6	592.6
47.5°	521.2	518.3	519.3	521.2	528.9	549.2	566.6	557.9	598.4	684.3	645.7
50°	531.8	527.0	528.0	544.4	555.9	577.2	605.2	601.3	654.4	752.8	703.6
52.5°	545.3	537.6	537.6	566.6	584.9	609.0	644.7	649.6	712.3	823.3	762.5
55°	567.5	557.9	551.1	590.7	622.5	648.6	690.1	711.3	775.0	896.6	816.5
57.5°	591.7	582.0	571.4	621.6	664.0	694.9	742.2	773.1	846.5	962.3	855.1
60°	629.3	611.9	601.3	661.1	722.0	753.8	811.7	851.3	921.7	1022.1	889.9
62.5°	656.3	642.8	639.9	711.3	793.4	830.1	885.1	926.6	991.2	1080.0	919.8
65°	684.3	676.6	677.6	765.4	878.3	918.8	978.7	1023.1	1081.0	1133.1	922.7
67.5°	723.9	716.2	732.6	831.0	976.8	1029.8	1090.6	1129.3	1165.9	1141.8	870.6
70°	776.0	766.3	796.3	910.2	1099.3	1167.9	1237.4	1278.9	1207.4	1111.9	703.6
72.5°	830.1	823.3	872.5	1023.1	1271.1	1359.0	1438.1	1414.9	1227.7	953.6	458.5
75°	895.7	897.6	976.8	1168.8	1545.2	1629.2	1695.8	1467.1	1036.6	563.7	174.7
77°	903.4	914.0	1031.8	1290.4	1753.7	1829.0	1692.9	1171.7	623.5	201.7	98.4
77.5°	871.6	881.2	1019.2	1307.8	1778.8	1820.3	1639.8	1094.5	500.0	162.1	86.9
80°	649.6	639.9	790.5	1090.6	1429.4	1344.5	981.6	424.7	145.7	84.0	53.1
82.5°	256.7	274.1	369.7	537.6	698.8	613.9	367.7	185.3	87.8	45.4	22.2
85°	118.7	127.4	139.0	142.8	180.5	186.3	138.0	171.8	63.7	21.2	13.5
87.5°	86.9	90.7	102.3	90.7	87.8	83.0	101.3	187.2	31.9	12.5	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	357.1	357.1	357.1	357.1	357.1	357.1	357.1	357.1	357.1	357.1	357.1
2.5°	354.2	351.3	352.3	351.3	349.4	347.5	345.5	343.6	344.6	344.6	341.7
5°	346.5	342.6	340.7	335.9	330.1	324.3	317.5	312.7	308.9	306.9	308.9
7.5°	338.8	334.0	330.1	318.5	308.9	292.4	281.8	267.4	265.4	263.5	261.6
10°	333.0	329.1	319.5	304.0	283.8	264.5	240.3	224.9	215.2	209.4	211.4
12.5°	329.1	324.3	308.9	284.7	258.7	229.7	202.7	182.4	170.8	163.1	161.2
15°	328.2	319.5	297.3	265.4	230.7	197.9	170.8	146.7	128.4	122.6	120.6
17.5°	328.2	316.6	286.7	245.2	204.6	167.9	138.0	115.8	100.4	94.6	92.7
20°	330.1	315.6	274.1	224.9	178.6	138.0	112.0	93.6	84.9	81.1	81.1
22.5°	333.0	314.6	260.6	202.7	153.5	115.8	92.7	82.0	78.2	75.3	75.3
25°	338.8	313.7	249.0	182.4	131.3	99.4	83.0	76.2	72.4	71.4	71.4
27.5°	346.5	314.6	237.4	163.1	111.0	87.8	76.2	72.4	70.5	69.5	69.5
30°	354.2	316.6	224.9	141.9	96.5	79.1	71.4	68.5	67.6	66.6	66.6
32.5°	362.9	318.5	210.4	124.5	85.9	72.4	67.6	65.6	65.6	64.7	63.7
35°	377.4	322.4	194.0	108.1	77.2	67.6	64.7	62.7	62.7	61.8	61.8
37.5°	397.7	327.2	177.6	96.5	71.4	63.7	60.8	60.8	59.8	59.8	58.9
40°	427.6	340.7	164.1	86.9	66.6	60.8	58.9	57.9	57.9	56.9	56.9
42.5°	461.4	357.1	151.5	80.1	63.7	57.9	56.0	56.0	56.0	55.0	54.0
45°	500.9	372.6	140.0	75.3	60.8	56.0	54.0	54.0	53.1	52.1	52.1
47.5°	543.4	391.9	132.2	72.4	59.8	55.0	53.1	51.2	51.2	50.2	50.2
50°	585.9	408.3	125.5	70.5	58.9	53.1	51.2	50.2	49.2	47.3	47.3
52.5°	626.4	425.6	123.5	68.5	56.9	52.1	49.2	48.3	47.3	45.4	45.4
55°	661.1	445.9	125.5	67.6	56.0	50.2	47.3	46.3	45.4	43.4	43.4
57.5°	686.2	456.5	126.4	67.6	55.0	47.3	44.4	45.4	43.4	42.5	42.5
60°	712.3	466.2	125.5	67.6	54.0	44.4	41.5	43.4	42.5	41.5	41.5
62.5°	729.7	462.3	120.6	67.6	53.1	42.5	39.6	42.5	43.4	41.5	42.5
65°	704.6	418.9	106.2	65.6	53.1	40.5	36.7	41.5	44.4	43.4	43.4
67.5°	613.9	316.6	88.8	61.8	51.2	39.6	33.8	37.6	41.5	40.5	41.5
70°	435.3	191.1	73.4	55.0	46.3	37.6	31.9	31.9	32.8	33.8	34.7
72.5°	225.9	104.2	59.8	48.3	40.5	33.8	29.0	27.0	27.0	27.0	28.0
75°	99.4	68.5	49.2	39.6	33.8	29.0	26.1	23.2	23.2	22.2	22.2
77°	69.5	54.0	40.5	32.8	28.0	24.1	23.2	20.3	20.3	19.3	19.3
77.5°	62.7	50.2	39.6	30.9	27.0	23.2	22.2	19.3	19.3	19.3	19.3
80°	42.5	39.6	29.9	23.2	21.2	18.3	17.4	16.4	15.4	15.4	15.4
82.5°	25.1	29.0	21.2	16.4	15.4	13.5	12.5	12.5	12.5	11.6	10.6
85°	15.4	21.2	13.5	10.6	10.6	8.7	8.7	7.7	7.7	6.8	6.8
87.5°	6.8	13.5	7.7	4.8	3.9	2.9	3.9	2.9	2.9	1.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)